Site Name: Holy Trinity Cemetery   Region: Region 2

Scenario Name: HTC Site Score

City, County, State: Lewiston, Niagara,   Evaluator: D. Breen
New York

EPA ID#: NYN000206698   Date: 06/09/2014

Lat/Long: 43:8:55,-79:1:55

Congressional District:

This Scoresheet is for: Combined PA/SI

Scenario Name: HTC Site Score

Description: Level I soil exposure

	S pathway	S^2 pathway
Ground Water Migration Pathway Score (S_{gw})	0.0	0.0
Surface Water Migration Pathway Score (S_{sw})	0.0	0.0
Soil Exposure Pathway Score (S_s)	10.26	105.27
Air Migration Score (S_a)	1.73	2.99
$S^2_{gw} + S^2_{sw} + S^2_s + S^2_a$		108.26
$(S^2_{gw} + S^2_{sw} + S^2_s + S^2_a)/4$		27.07
$\sqrt{(S^2_{gw} + S^2_{sw} + S^2_s + S^2_a)/4}$		5.2

Pathways not assigned a score (explain):

TABLE 3-1 --GROUND WATER MIGRATION PATHWAY SCORESHEET

Factor categories and factors	Maximum Value	Value Assigned	
Aquifer Evaluated: Aquifer			
Likelihood of Release to an Aquifer:			
1. Observed Release	550	0.0	
2. Potential to Release:			
2a. Containment	10	10.0	
2b. Net Precipitation	10	10.0	
2c. Depth to Aquifer	5	5.0	
2d. Travel Time	35	35.0	
2e. Potential to Release [lines 2a(2b + 2c + 2d)]	500	500.0	
3. Likelihood of Release (higher of lines 1 and 2e)	550		500.0
Waste Characteristics:			
4. Toxicity/Mobility	(a)	2000.0	
5. Hazardous Waste Quantity	(a)	10.0	
6. Waste Characteristics	100		10.0
Targets:			
7. Nearest Well	(b)	0.0	
8. Population:			
8a. Level I Concentrations	(b)	0.0	
8b. Level II Concentrations	(b)	0.0	
8c. Potential Contamination	(b)	0.0	
8d. Population (lines 8a + 8b + 8c)	(b)	0.0	
9. Resources	5	0.0	
10. Wellhead Protection Area	20	0.0	
11. Targets (lines 7 + 8d + 9 + 10)	(b)		0.0
Ground Water Migration Score for an Aquifer:			
12. Aquifer Score [(lines 3 x 6 x 11)/82,5000][c]	100		0.0
Ground Water Migration Pathway Score:			
13. Pathway Score (S_{gw}), (highest value from line 12 for all aquifers evaluated)[c]	100		0.0

[a] Maximum value applies to waste characteristics category
[b] Maximum value not applicable
[c] Do not round to nearest integer

TABLE 5-1 --SOIL EXPOSURE PATHWAY SCORESHEET		
Factor categories and factors	Maximum Value	Value Assigned
Likelihood of Exposure:		
1. Likelihood of Exposure	550	550.0
Waste Characteristics:		
2. Toxicity	(a)	10000.0
3. Hazardous Waste Quantity	(a)	10.0
4. Waste Characteristics	100	18.0
Targets:		
5. Resident Individual	50	50.0
6. Resident Population:		
6a. Level I Concentrations	(b)	30.0
6b. Level II Concentrations	(b)	
6c. Population (lines 6a + 6b)	(b)	30.0
7. Workers	15	5.0
8. Resources	5	
9. Terrestrial Sensitive Environments	(c)	
10. Targets (lines 5 + 6c + 7 + 8 + 9)	(b)	85.0
Resident Population Threat Score		
11. Resident Population Threat Score (lines 1 x 4 x 10)	(b)	841500.0
Nearby Population Threat		
Likelihood of Exposure:		
12. Attractiveness/Accessibility	100	75.0
13. Area of Contamination	100	40.0
14. Likelihood of Exposure	500	125.0
Waste Characteristics:		
15. Toxicity	(a)	10000.0
16. Hazardous Waste Quantity	(a)	10.0
17. Waste Characteristics	100	18.0
Targets:		
18. Nearby Individual	1	0.0
19. Population Within 1 Mile	(b)	2.1
20. Targets (lines 18 + 19)	(b)	2.1
Nearby Population Threat Score		
21. Nearby Population Threat (lines 14 x 17 x 20)	(b)	4725.0
Soil Exposure Pathway Score:		
22. Pathway Score[d] (S_s), [lines (11+21)/82,500, subject to max of 100]	100	10.26

[a] Maximum value applies to waste characteristics category
[b] Maximum value not applicable
[c] No specific maximum value applies to factor. However, pathway score based solely on terrestrial sensitive environments is limited to a maximum of 60
[d] Do not round to nearest integer

TABLE 6-1 --AIR MIGRATION PATHWAY SCORESHEET			
Factor categories and factors	Maximum Value	Value Assigned	
Likelihood of Release:			
1. Observed Release	550	0.0	
2. Potential to Release:			
2a. Gas Potential to Release	500	360.0	
2b. Particulate Potential to Release	500	280.0	
2c. Potential to Release (higher of lines 2a and 2b)	500	360.0	
3. Likelihood of Release (higher of lines 1 and 2c)	550		360.0
Waste Characteristics:			
4. Toxicity/Mobility	(a)	1000.0	
5. Hazardous Waste Quantity	(a)	10.0	
6. Waste Characteristics	100		10.0
Targets:			
7. Nearest Individual	50	20.0	
8. Population:			
8a. Level I Concentrations	(b)	0.0	
8b. Level II Concentrations	(b)	0.0	
8c. Potential Contamination	(c)	18.3	
8d. Population (lines 8a + 8b + 8c)	(b)	18.3	
9. Resources	5	0.0	
10. Sensitive Environments:			
10a. Actual Contamination	(c)	0.0	
10b. Potential Contamination	(c)	1.29	
10c. Sensitive Environments (lines 10a + 10b)	(c)	1.29	
11. Targets (lines 7 + 8d + 9 + 10c)	(b)		39.59
Air Migration Pathway Score:			
12. Pathway Score (S_a) [(lines 3 x 6 x 11)/82,500][d]	100		1.73

[a] Maximum value applies to waste characteristics category
[b] Maximum value not applicable
[c] No specific maximum value applies to factor. However, pathway score based solely on sensitive environments is limited to a maximum of 60.
[d] Do not round to nearest integer